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OM protein - protein search, using sw model

Run on: June 26, 2001, 16:30:29 ; Search time 57.86 Seconds

209.554 Million cell updates/sec

Title: US-09-484-629A-2

Sequence: 1 MLRALNRLAARPGQPRTL...LDSPKSYNWAVTKEGVNRN 200

Gapop 10.0 , Gapext 0.5

Searched: 412676 seqs, 60623988 residues

Total number of hits satisfying chosen parameters: 412676

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing:	Minimum Match	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Minimum Match	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Minimum Match	20%	10%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Minimum Match	30%	10%	20%	30%	30%	30%	30%	30%	30%	30%	30%	30%
Minimum Match	40%	10%	20%	30%	40%	40%	40%	40%	40%	40%	40%	40%
Minimum Match	50%	10%	20%	30%	40%	50%	50%	50%	50%	50%	50%	50%
Minimum Match	60%	10%	20%	30%	40%	50%	60%	60%	60%	60%	60%	60%
Minimum Match	70%	10%	20%	30%	40%	50%	60%	70%	70%	70%	70%	70%
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Minimum Match	90%	10%	20%	30%	40%	50%	60%	70%	80%	90%	90%	90%
Minimum Match	100%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

Listing first 45 summaries

Database

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1004	100.0	200	21	AAV63370	A 5'-OT EST (oxyc
2	904	90.0	200	21	AAV63372	A mouse 5'-OT EST
3	687	68.4	205	21	AAV63371	A human 5'-OT ES
4	135	13.4	41	21	AAV63373	A deleted 5'-OT ES
5	135	13.4	41	21	AAV63375	Fragment of a mutat
6	126	12.5	1299	21	AAV58633	Protein regulating
7	125	12.5	176	21	AAG07955	Arabidopsis thalia
8	125	12.5	176	21	AAG48183	Arabidopsis thalia
9	125	12.5	176	21	AAG48204	Arabidopsis thalia
10	125	12.5	195	21	AAG07954	Arabidopsis thalia
11	125	12.5	195	21	AAG48182	Arabidopsis thalia

15	107.5	10.7	2192	18	AAW217733
14	107.5	10.7	2195	21	AAW499237
44	108	10.8	2096	21	AAB4155929
41	109	10.8	251	21	AAB4297577
42	109	10.9	1411	17	AAW0229785
41	109	10.9	1411	17	AAW0229785
40	109	10.9	914	21	AAW5926638
39	109	10.9	914	18	AAW1803033
38	110.5	11.0	318	13	AAW2594343
37	110.5	11.1	315	22	AAW2594343
36	111	11.1	1239	20	AAW5593133
35	111	11.1	756	21	AAW5927276
34	112	11.2	303	21	AAB54288838
35	112	11.2	303	21	AAB54288838
33	112.5	11.3	1090	21	AAW592270
32	113	11.3	2442	21	AAW757577
31	114	11.4	493	13	AAW2694143
30	114	11.4	314	20	AAW8684499
29	114	11.4	316	13	AAW2694143
28	114.5	11.4	186	20	AAW225938
27	114.5	11.4	186	18	AAW2653538
26	116.5	11.6	2819	22	AAB3540809
25	117.5	11.7	493	19	AAW52119
24	117.5	11.7	467	19	AAW52119
23	117.5	11.7	452	19	AAW52119
22	117.5	11.7	311	19	AAW52119
21	118.5	11.8	583	13	AAW52118
20	120.5	12.0	462	11	AAW057666
19	121.5	12.1	1989	20	AAW3079998
18	122	12.2	631	21	AAW92816
17	123.5	12.3	2110	21	AAB4452816
16	123.5	12.3	1643	21	AAB4455664
15	125	12.5	280	21	AAW481801
14	125	12.5	266	21	AAW481801
13	125	12.5	266	21	AAW481801
12	125	12.5	195	21	AAW4802933
11	125	12.5	266	21	AAW4802933

ALIGNMENTS

RESULT 1
AAY69370

DT 19-JUN-2000 (first entry)

DE A 5'-OT EST (oxytoxin expressed sequence tag) protein

KM Oxytocin expressed sequence tag; 5'-OT EST; obesity; fertility; male;
KM transgenic animal; human late onset obesity; late onset visceral obesity;
KM male infertility; wasting; anorexia; cachexia; malabsorptive state;
KM catabolic state; inflammatory condition; Crohn's disease; AIDS wasting;
KM burn; cancer; Dene disease.

OS Ratus sp.

PN WO200009686-A1.

PD 24-FEB-2000

PF 12-AUG-1999; 99WO-GB02658.

PR 06-MAY-1999; 99GB-0010522

PA (MEDI-) MEDICAL RES COUNCIL

PI Robinson ICAF, Stoye JP, I

DR WPI; 2000-224331/19.

XX

Query Match	90.0%	Score 904	DB 21	Length 200
Best Local Similarity	89.5%	Pred. No. 4.5e-76		
Matches 179	Conservative 10	Mismatches 11	Indels 0	Gaps 0
OY	1	MLRLNRLARLAPGCGOPTLLLPVRGKTRHDPAPKSKVYGRKMPAVDPAELFVLTTRY	60	
Db	1	mlrlnrlnlaqrpdrrptlllpvrgkrtrhdpapkskvygrvqppavdpseffvlttry	60	
OY	61	ROYEYVRLRRREFTLEVKGKLTHEARAGVLARKKQAEIRHOSLMMNRENRRLDEL	120	
Db	61	gyeyetvralrlftldvirkliheearagvlaerkqgaaltelrmlawndentrmqelr	120	
OY	121	IARQLAEAOQELROAEVQARQAEQOAWOLKEDEVLKLOEAKNFTRTNLEARIEEA	180	
Db	121	iarqlaeagdeqvknaeqqrgraeqgawvqlkegeviklqeakniftrtnleartiea	180	
OY	181	LDSPKSYNMAVTRKEGQVVRN	200	
Db	181	ldspksynwatkqgyvrn	200	
RESULT	3			
ID	AAV69371			
AC	AAV69371			
DT	19-JUN-2000	(first entry)		
DE	A human 5'-OT EST (oxytoxin expressed sequence tag) protein.			
OS	Homo sapiens.			
PN	WO200009686-A1.			
PD	24-FEB-2000.			
PF	12-AUG-1999	99MO-GB02658.		
PR	12-AUG-1998	98GB-0017566.		
PR	06-MAY-1999	99GB-0010522.		

XX (MEDI-) MEDICAL RES COUNCIL.
 PA Robinson ICAF, Stoye JP, Flavell D, Wells SE, Le Tissier P;
 PI MPI: 2000-224331/19.
 XX N-PSDB: AA61511.
 DR New anti-obesity polypeptide useful for treating obesity or infertility
 XX in mammals -
 XX Claim 1: Page 119; 162pp; English.
 XX The present sequence represents a human 5'-OT-EST (oxytocin expressed
 CC sequence tag) polypeptide. The 5'-OT EST gene is involved in the
 CC control of obesity and fertility in males. 5'-OT EST nucleic acids are
 CC useful for producing transgenic animals. The transgenic animals created
 CC serve as a model for human late onset obesity and other related disorders
 CC and are also used for identifying the genetic cause of obesity. Compounds
 CC which modulate 5'-OT EST expression or activity are useful in the
 CC treatment or modulation of late onset visceral obesity or male
 CC infertility particularly in the disorders associated to these conditions
 CC such as wasting, or anorexia, or cachexia associated with prolonged
 CC illness, or malabsorptive states or catabolic states associated with
 CC other diseases such as inflammatory conditions, Crohn's disease or
 CC AIDS wasting, or burns, or cancer, or bone disease.
 XX Sequence 205 AA:
 SQ
 Query Match 68.4%; Score 687; DB 21; Length 205;
 Best Local Similarity 69.8%; Pred. No. 1.7e-57;
 Matches 139; Conservative 22; Mismatches 38; Indels 0; Gaps 0;
 OY 1 MLRALNRLAARPGOPPTLLLPVGRKTRHDPKSKVGRVKKMPAPVDAELFLVTERK 60
 DB 1 mlralnrlaargpoppptlllpvgrktrhdpkskvgrvkkmpapvdafelvlmery 60
 OY 61 ROYRETVARLRREFTELEYRGLHPRAGVLAERKAQAIKEHOMLNMEENRRLQELR 120
 DB 61 qhyrcvtvralmetfsevrkvhearagvlaerkalkdaehelmwngaeintrlhelr 120
 OY 121 IAROLEAOAOELROAEVOAOAEQAWOLKEOEVLKLOEAKNFITRENTLEARIEEA 180
 DB 121 larlqeeegedqralqarkkaeevqagrkerevqlqeevknfltrenlearyeaa 180
 OY 181 LDSPKSYMAVTKEGQVVR 199
 DB 181 ldsrknymwalfreglvvr 199
 RESULT 4
 AAY69373 standard; Protein: 41 AA.
 XX AAY69373;
 XX 19-JUN-2000 (first entry)
 DE A deleted 5'-OT EST (oxytocin expressed sequence tag) protein.
 XX Oxytocin expressed sequence tag; 5'-OT EST; obesity; fertility; male;
 KM transgenic animal; human late onset obesity; late onset visceral obesity;
 KM male infertility; wasting; anorexia; cachexia; malabsorptive state;
 KM catabolic state; inflammatory condition; Crohn's disease; AIDS wasting;
 KM burn; cancer; bone disease.
 XX Synthetic.
 OS Rattus sp.
 XX MO200009686-A1.
 XX 24-FEB-2000.

XX 12-AUG-1999; 99WO-GB02658.
 XX 12-AUG-1998; 98GB-0017566.
 PR 06-MAY-1999; 99GB-0010522.
 XX (MEDI-) MEDICAL RES COUNCIL.
 PA Robinson ICAF, Stoye JP, Flavell D, Wells SE, Le Tissier P;
 PI MPI: 2000-224331/19.
 XX N-PSDB: AA61513.
 DR New anti-obesity polypeptide useful for treating obesity or infertility
 XX in mammals -
 XX Disclosure: Page 124; 162pp; English.
 XX The present sequence represents a rat 5'-OT-EST (oxytocin expressed
 CC sequence tag) mutant polypeptide (designated 5'-OT EST-xdel), where
 CC exons x, y and z are deleted and exon w is partially deleted. The
 CC 5'-OT EST gene is involved in the control of obesity and fertility
 CC in males. 5'-OT EST nucleic acids are useful for producing transgenic
 CC animals. The transgenic animals created serve as a model for human late
 CC onset obesity and other related disorders and are also used for
 CC identifying the genetic cause of obesity. Compounds which modulate
 CC 5'-OT EST expression or activity are useful in the treatment or
 CC modulation of late onset visceral obesity or male infertility
 CC particularly in the disorders related to these conditions such as
 CC wasting, or anorexia, or cachexia associated with prolonged illness,
 CC or malabsorptive states or catabolic states associated with other
 CC diseases such as inflammatory conditions, Crohn's disease or AIDS
 CC wasting, or burns, or cancer, or bone disease.
 XX Sequence 41 AA:
 SQ
 Query Match 13.4%; Score 135; DB 21; Length 41;
 Best Local Similarity 90.0%; Pred. No. 4.3e-06;
 Matches 27; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 OY 1 MLRALNRLAARPGOPPTLLLPVGRKTR 30
 DB 1 mlralnrlaargpoppptlllpvgrktr 30
 RESULT 5
 AAY69375 standard; Peptide: 41 AA.
 XX AAY69375;
 XX 19-JUN-2000 (first entry)
 DE Fragment of a mutant 5'-OT EST (oxytocin expressed sequence tag).
 XX Oxytocin expressed sequence tag; 5'-OT EST; obesity; fertility; male;
 KM transgenic animal; human late onset obesity; late onset visceral obesity;
 KM male infertility; wasting; anorexia; cachexia; malabsorptive state;
 KM catabolic state; inflammatory condition; Crohn's disease; AIDS wasting;
 KM burn; cancer; bone disease.
 XX Unidentified.
 OS WO200009686-A1.
 XX 24-FEB-2000.
 XX 12-AUG-1999; 99WO-GB02658.
 XX 12-AUG-1998; 98GB-0017566.
 PR 06-MAY-1999; 99GB-0010522.

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FT	Modified-site	1246	/note= "N-glycosylated"
FT	Modified-site	1282	/note= "N-glycosylated"
XX	WO9964596-A2.		
XX	16-DEC-1999.		
XX	11-JUN-1999;	99WO-US13281.	
XX	12-JUN-1998;	98US-0089029.	
XX	29-JUL-1998;	98US-0094575.	
XX	14-OCT-1998;	98US-0104624.	
XX	(INCY-)	INCYTE PHARM INC.	
PI	Lal P, Yue H, Tang YT, Hillman JL, Bandman O, Corley NC;		
PI	Guegler KJ, Gorgone GA, Baughn MR, Patterson C, Lu DM;		
XX	WPI; 2000-116543/10.		
XX	N-PSDB; AA257864.		
XX	Claim 1; Page 110-113; 150pp; English.		
XX	The present sequence is that of new human protein regulating gene		
XX	expression PGE-26, deduced from incyte clone PITUNOT01 (see AA257864)		
XX	isolated from pituitary gland cDNA library. PGE-26 is expressed in		
XX	reproductive, nervous and gastrointestinal tissues associated with		
XX	cell proliferative and inflammation diseases, disorders or conditions.		
XX	It is characterised as a glutamine-rich protein. The invention		
XX	provides PRGE polypeptides (see AA57860-38) and polynucleotides (see		
XX	AA257839-69), expression vectors, host cells, antibodies, agonists and		
XX	antagonists. It also provides methods for diagnosing, treating or		
XX	preventing disorders associated with expression of PRGE.		
XX	Sequence 1299 AA;		

	Query Match	13.5%	Score 126;	DB 21,	Length 1299;
	Near Local Similarity	29.1%;	Pred. No. 0.0022;		
	Matches 44;	Conservative	29;	Mismatches 62;	Indels 16; Gaps 5
OY	58 ERYR--YRETVALRREFTLEVGKILHEARAGVLAERKAQEAIREHOE---LMAWNR	110			
Db	754 ekrqgealrrqgeallrrqgeeeekrrreee----larrkqgealrrrqgealalrrqre	809			
OY	111 FENRLQELRIARQLDMAQAOLRAQAEVQAORAOEDA--TWOLKEOEVLRXGOEAKNFI	168			
Db	810 eeerqqgeaalrlleerrreeeerkrkqealllkqgeeaakwaraeeaaqrlee---nrl	866			
OY	169 TRENLARIIEALDSPKSXYNNAAVTREGGVVR	199			
Db	867 rmeeearlrhneeerkkrkelevrgqkelmr	897			
RESULT	7				
ID	AA607955				
xx	AA607955 standard; Protein: 176 AA.				

AC	AAG07955;
XX	
DT	17-OCT-2000 (first entry)
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 5303.
XX	
KW	Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
XX	
OS	Arabidopsis thaliana.
XX	
PN	EP1033405-A2.
XX	
PD	06-SEP-2000.
XX	
PF	25-FEB-2000; 2000EP-0301439.
PR	
XX	
PR	25-FEB-1999; 99US-0121825.
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PR	05-MAR-1999; 99US-0123180.
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 PR 25-AUG-1999; 99US-0150366.

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Query Match 12.5%; Score 125; DB 21; Length 176;
 Best Local Similarity 29.2%; Pred. No. 0.00023;
 Matches 38; Conservative 31; Mismatches 51; Indels 10; Gaps

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XX AC AAG48183;
XX 18-OCT-2000 (first entry)
XX Arabidopsis thaliana protein fragment SEQ ID NO: 60821.
XX Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX Arabidopsis thaliana.
XX EPI033405-A2.
XX 06-SEP-2000.
XX 25-FEB-2000; 2000EP-0301439.
XX 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
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PR 06-APR-1999; 99US-0128234.
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PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
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PR 23-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.

PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 30-AUG-1999; 99US-0151080.
PR 31-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
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PR 15-SEP-1999; 99US-0154018.
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PR 24-SEP-1999; 99US-0155659.
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PR 26-OCT-1999; 99US-0161920.
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PR 29-OCT-1999; 99US-0162142.

Query Match 12.5%; Score 125; DB 21; Length 176;
Best Local Similarity 29.28; Pred. No. 0.00023;
Matches 38; Conservative 31; Mismatches 51; Indels 10; Gaps 3;

OY 56 LTRERQYREYRALRREFTLEVR---GKLEHARAGYLAERKAQOEAIRHOSLMAWRE 111
DB 47 lqrlrtqakkrvrykykylhelmlrvekqkdearlleataneerillkeaaakvra 106
OY 112 ENRRLOEIRIARLOLEAOELROAEVOAQRABEOWOLKEOEVLKLOFEAKNFTIRE 171
DB 107 eerkladeefrcqlkeraeklemkmgqkree---kikerekl-lreagslwleqk 160
OY 172 NLEAREEAL 181
DB 161 elerklteal 170

ID AAG48204 standard; Protein; 176 AA.
AC AAG48204;
AC AC
DT 18-OCT-2000 (first entry)
XX Arabidopsis thaliana protein fragment SEQ ID NO: 60849.
DE DE
XX Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX Arabidopsis thaliana.
OS Arabidopsis thaliana.
XX EP1033405-A2.
PN PN
XX 06-SEP-2000.
PD PD
XX 25-FEB-2000; 2000EP-0301439.
PE PE
XX 25-FEB-1999; 99US-0121825.
XX 05-MAR-1999; 99US-0123180.
XX 09-MAR-1999; 99US-0123548.
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PR	23-AUG-1999;	99US-0149930.
PR	25-AUG-1999;	99US-0150566.
PR	26-AUG-1999;	99US-0150884.
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PR	27-AUG-1999;	99US-0151066.
PR	27-AUG-1999;	99US-0151080.
PR	30-AUG-1999;	99US-0151303.
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PR	01-SEP-1999;	99US-0151930.
PR	07-SEP-1999;	99US-0152363.
PR	10-SEP-1999;	99US-0153070.
PR	13-SEP-1999;	99US-0153758.
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PR	16-SEP-1999;	99US-0154039.
PR	20-SEP-1999;	99US-0154779.
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PR	24-SEP-1999;	99US-0155659.
PR	28-SEP-1999;	99US-0156458.
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PR	25-OCT-1999;	99US-0161406.
PR	26-OCT-1999;	99US-0161359.
PR	26-OCT-1999;	99US-0161360.
PR	26-OCT-1999;	99US-0161361.
PR	28-OCT-1999;	99US-0161920.
PR	28-OCT-1999;	99US-0161992.
PR	29-OCT-1999;	99US-0162142.

AG07954
ID AAG07954 standard; Protein: 195 AA.
AC AAG07954;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 5302.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
PN EPI033405-A2.
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
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PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
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KW	hybridisation assay; genetic mapping; gene expression control; promoter;
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Query Match

12.5%; Score 125; DB 21; Length 266;
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 Db 137 laq1rtdyakkvrykeylthelemlrvekqrdearlllaeraaneerrllkaeakvra 196
 OY 112 ENRRLQELRIARLOEAQAOELRQAEVOAQRQOEQAWVOLAEOEYLUQAEAKNFIRE 171
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Db 251 elerktreal 260

RESULT 14
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XX Protein identification: signal transduction pathway; metabolic pathway;
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XX termination sequence.
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XX Arabidopsis thaliana.
OS
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Qy	112	ENRRLOELRIARLOAQOELRQAOEAOQRAEQOAWOLKEQVLLKQOEAKNFITE		171
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